

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/872,051

DATE: 06/26/2001
TIME: 09:02:37

Input Set : A:\es.txt
Output Set: N:\CRF3\06262001\I872051.raw

3 <110> APPLICANT: Monsanto Co
4 Behr, Carl
5 Hironaka, Catherine
6 Heck, Gregory
7 You, Jinsong
9 <120> TITLE OF INVENTION: Corn Event PV-ZMGT32(nk603) and Composition and Methods for
Detection
10 Thereof
12 <130> FILE REFERENCE: 38-21(52258)B
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/872,051
C--> 14 <141> CURRENT FILING DATE: 2001-06-01
14 <150> PRIOR APPLICATION NUMBER: 60/213,567
15 <151> PRIOR FILING DATE: 2000-06-22
17 <150> PRIOR APPLICATION NUMBER: 60/241,215
18 <151> PRIOR FILING DATE: 2000-10-13
20 <150> PRIOR APPLICATION NUMBER: 60/240,014
21 <151> PRIOR FILING DATE: 2000-10-13
23 <160> NUMBER OF SEQ ID NOS: 16
25 <170> SOFTWARE: PatentIn version 3.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 22
29 <212> TYPE: DNA
C--> 30 <213> ORGANISM: artifical *Artificial repressor*
32 <220> FEATURE:
33 <221> NAME/KEY: source
34 <222> LOCATION: (1)..(22)
35 <223> OTHER INFORMATION: fully synthesized
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39 gtatatcgac tcactatagg gc 22
42 <210> SEQ ID NO: 2
43 <211> LENGTH: 30
44 <212> TYPE: DNA
C--> 45 <213> ORGANISM: artifical
47 <220> FEATURE:
48 <221> NAME/KEY: source
49 <222> LOCATION: (1)..(30)
50 <223> OTHER INFORMATION: full synthesized
53 <400> SEQUENCE: 2
54 tgacgtatca aagtaccgac aaaaacatcc 30
57 <210> SEQ ID NO: 3
58 <211> LENGTH: 19
59 <212> TYPE: DNA
C--> 60 <213> ORGANISM: artifical
62 <220> FEATURE:
63 <221> NAME/KEY: source
64 <222> LOCATION: (1)..(19)
65 <223> OTHER INFORMATION: fully synthesized
68 <400> SEQUENCE: 3

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69 actataggc acgcgtgg	19
72 <210> SEQ ID NO: 4	
73 <211> LENGTH: 29	
74 <212> TYPE: DNA	
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77 <220> FEATURE:	
78 <221> NAME/KEY: source	
79 <222> LOCATION: (1)..(29)	
80 <223> OTHER INFORMATION: fully synthesized	
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84 ctttgttta ttttggacta tcccgact	29
87 <210> SEQ ID NO: 5	
88 <211> LENGTH: 26	
89 <212> TYPE: DNA	
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92 <220> FEATURE:	
93 <221> NAME/KEY: source	
94 <222> LOCATION: (1)..(26)	
95 <223> OTHER INFORMATION: fully synthesized	
98 <400> SEQUENCE: 5	
99 agattgaatc ctgttgccgg tcttgc	26
102 <210> SEQ ID NO: 6	
103 <211> LENGTH: 28	
104 <212> TYPE: DNA	
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107 <220> FEATURE:	
108 <221> NAME/KEY: source	
109 <222> LOCATION: (1)..(28)	
110 <223> OTHER INFORMATION: fully synthesized	
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114 gcgggtgtcat ctatgttact agatcggg	28
117 <210> SEQ ID NO: 7	
118 <211> LENGTH: 498	
119 <212> TYPE: DNA	
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122 <220> FEATURE:	
123 <221> NAME/KEY: source	
124 <222> LOCATION: (1)..(498)	
125 <223> OTHER INFORMATION: 1-304 Zea maize genomic DNA	
126 305-349 construct vector DNA	
127 350-498 rice actin 1 promoter DNA	
130 <400> SEQUENCE: 7	
131 aatcgatcca aaatcgac tgaaatggg gaagaaaagag agaacagaga gcctcacgtt	60
133 tccagggtga agtacgag gatttaccgc ccatgcctt tatggagaca agaaggggag	120
135 gaggtaaaca gatcagcatc agcgctcgaa agttcgtca aaggatgcgg aactgtttcc	180
137 agccgccgtc gccatcgcc cagactccctc ctctctcgcc atgagccgat ctttctctg	240
139 gcatttccaa cccttagagac gtgcgtccct ggtgggctgc tcggccagca agcctttag	300
141 cggcccacgc gtggtagccaa gcttgatatac ccttagggcgg ccgcgttaac aagttactc	360
143 gaggtcattc atatgcttga gaagagatc gggatagtcc aaaataaaac aaaggttaga	420

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145	ttaccggtca aaagtaaaa catcagttaa aagggtata aagtaaaata tcggtataaa	480
147	aagggtggccc aaagtcaa	498
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152	<212> TYPE: DNA	
C-->	153 <213> ORGANISM: <u>artificial</u>	
155	<220> FEATURE:	
156	<221> NAME/KEY: source	
157	<222> LOCATION: (1)..(1183)	
158	<223> OTHER INFORMATION: 1-164 Agrobacterium tumefaciens nos 3' terminator	
159	165-381 construct vector DNA	
160	382-686 Zea maize plastid genes, rps11 and rpoA	
161	687-1183 Zea maize genomic DNA	
164	<400> SEQUENCE: 8	
165	gacgttattt atgagatggg ttttatgtat tagagtcccg caattataaca tttaataacgc	60
167	gatagaaaac aaaatatagc gcgc当地acta ggataaaatta tcgc当地cgccgg tgc当地atctat	120
169	gttacttagat cgggatatac cccggggaaat tcggtagaa gctttataaa tagtagaaaa	180
171	gagtaaattt cacttggc caccttttattt taccgatattt ttacttata ccacctttta	240
173	actgtatgttt tcactttga ccaggttaatc ttacctttgt tttattttg actatccgaa	300
175	ctctcttc aagcatatga atgacctcgaa gtaagctgtt taacgc当地gccc gccc当地taggaa	360
177	tatcaagctt ggtaccacgc gacacacttc cactctagtg tttgagttggaa tcctgttata	420
179	tcttctcgaa ccataaacaga ctatgtattt ttgatcattt aatcgatattt ttcttcttgaa	480
181	agcggtttca ttttttttca cagacgtt tttttaggag gtc当地acatcc attatgc当地ggc	540
183	atagggttta catcgctat acaacttaac cgtacaccac ttttagcaat ggctcgtaat	600
185	gc当地gcatctc ttccgctacc agcacctttt accataactt ctgctcggtt caaacccact	660
187	gtacgaatag catctactgc tggctgttgc actttatattt ttttaataaa gtggaaaaacc	720
189	ataaaatgga caacaacacc ctgc当地ttca ctaccggcgc gagc当地acgcc gaagatgggg	780
191	ttcaacacagg tc当地gacacgc gatgcaacgg accctccaag ccaataactcg aggccggacc	840
193	gacgacgttag gc当地gggtgg ccataacgac ggtggc当地gca tccaaacttgt tcttccctt	900
195	tctctgtctt caacttgc当地 cggc当地gtctg ct当地gacccag gggatgtctgt gtggaggaga	960
197	ggtc当地gggg cccgatttt atagcctggg cgaggacgag cttggccgaa cc当地atccaga	1020
199	gctctgc当地ca aatcacgaag aaccagtggg gccgctcgcc cctagccac cggc当地aggagc	1080
201	ggggcttggt gc当地gccc当地ta gc当地ggggaa gggacgacc cgctaggggg gcccatgctc	1140
203	cagc当地cccaag agagaaaaaa agaaaggaag gc当地gagatg atg	1183

206 <210> SEQ ID NO: 9

207 <211> LENGTH: 19

208 <212> TYPE: DNA

C--> 209 <213> ORGANISM: artificial

211 <220> FEATURE:

212 <221> NAME/KEY: source

213 <222> LOCATION: (1)..(19)

214 <223> OTHER INFORMATION: Zea maize genomic and vector DNA

217 <400> SEQUENCE: 9

218 tgtacggcc cacgctgtgg

19

221 <210> SEQ ID NO: 10

222 <211> LENGTH: 18

223 <212> TYPE: DNA

C--> 224 <213> ORGANISM: artificial

226 <220> FEATURE:

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Input Set : A:\es.txt

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227 <221> NAME/KEY: source
 228 <222> LOCATION: (1)..(18)
 229 <223> OTHER INFORMATION: zea maize plastid DNA and vector DNA
 232 <400> SEQUENCE: 10
 233 taccacgcga cacacttc
 236 <210> SEQ ID NO: 11
 237 <211> LENGTH: 18
 238 <212> TYPE: DNA
 C--> 239 <213> ORGANISM: artificial
 241 <220> FEATURE:
 242 <221> NAME/KEY: source
 243 <222> LOCATION: (1)..(18)
 244 <223> OTHER INFORMATION: Zea maize genomic DNA and vector DNA
 247 <400> SEQUENCE: 11
 248 tgctgttctg ctgacttt
 251 <210> SEQ ID NO: 12
 252 <211> LENGTH: 18
 253 <212> TYPE: DNA
 C--> 254 <213> ORGANISM: artificial
 256 <220> FEATURE:
 257 <221> NAME/KEY: source
 258 <222> LOCATION: (1)..(18)
 259 <223> OTHER INFORMATION: Agrobacterium tumefaciens nos 3' terminator and rice actin
 promot
 260 er DN
 263 <400> SEQUENCE: 12
 264 accaagcttt tataatag
 267 <210> SEQ ID NO: 13
 268 <211> LENGTH: 22
 269 <212> TYPE: DNA
 C--> 270 <213> ORGANISM: artificial
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 273 <221> NAME/KEY: source
 274 <222> LOCATION: (1)..(22)
 275 <223> OTHER INFORMATION: fully synthesized
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 279 aatcgatcca aaatcgcgac tg
 282 <210> SEQ ID NO: 14
 283 <211> LENGTH: 22
 284 <212> TYPE: DNA
 C--> 285 <213> ORGANISM: artificial
 287 <220> FEATURE:
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 289 <222> LOCATION: (1)..(22)
 290 <223> OTHER INFORMATION: fully synthesized
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 297 <210> SEQ ID NO: 15
 298 <211> LENGTH: 22
 299 <212> TYPE: DNA

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C--> 300 <213> ORGANISM: artificial

302 <220> FEATURE:

303 <221> NAME/KEY: source

304 <222> LOCATION: (1)..(22)

305 <223> OTHER INFORMATION: fully synthesized

308 <400> SEQUENCE: 15

309 gacgttattt atgagatggg tt

22

312 <210> SEQ ID NO: 16

313 <211> LENGTH: 22

314 <212> TYPE: DNA

C--> 315 <213> ORGANISM: artificial

317 <220> FEATURE:

318 <221> NAME/KEY: source

319 <222> LOCATION: (1)..(22)

320 <223> OTHER INFORMATION: fully synthesized

323 <400> SEQUENCE: 16

324 catcatctcg cgccttcctt tc

22

VERIFICATION SUMMARY
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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:30 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:45 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:60 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:75 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:90 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:105 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:120 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:153 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:209 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:224 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:239 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:254 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:270 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:285 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:300 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:315 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16